A. R. 57 (Rule 116)

Measurement Book

No. B 209238

Serial No. 1st and final Bill

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency Executive Engineer, KRIDL

Date of commencement of work Date of Recording:

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work: Improvements to Roads and Drains at Devappa layout and surrounding areas in ward No.11 Kuvempunagara						
	Est cost Rs: 79.00 lakhs						
	work code No: 011-80-000006						
	Head of A/C: P-3787 SC-51/TSP						
	work order No: BBMP/EE/BTP/WO/145/19-20 Dt: 08/11/19						
Unit	Earthwork excavation by manual means for Roads, Drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breading						

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MEASUREMENT

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of clocks complete as per specification. mom)/chapter 3 comp as per specifications and direction of the Engineer in charge.						
	Outty wide EMB P.ND				=	533.65/cum	
	@ 207.60/cum				=	110786.00	
Item 21	Removing and refixing stone slabs of drains and pointing in cm(1						
	Complete as per specifications and directions of the Engineer i						
	Outty wide EMB P.ND				=	1104.77 Sqm	
	@ 113.30/Sqm				=	12296.0	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 209239

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Providing granite slabs of selected quality roughly dressed boring a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing etc..						
	Quality wide EMB P.NO =					4566.14 sqm	
	@ 78.00/sqm =						360716.00
	providing and laying in position plain cement concrete of mix 1:4:8 with opc @ 150kgs. with 40mm and down size graded granite						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to the Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	metal course aggregates @ 0.55 cum and fine aggregates @ 0.9 cum mixed, concrete laid in layers,						
	Quality mixe EMB P.ND					= 193.53 cum	
	@ 5408.19/ cum					=	1047633
item (5)	providing and constructing load bearing walls with solid concrete blocks having block density not less than 1800 kg/m3 having minimum average compressive strength of 4.0 N/mm2						
	Quality mixe EMB					= 1469.44 sqm	
	@ 1019.79/ sqm					=	1498444.1

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Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	providing and laying in position plain cement concrete 4 min 1:2:4 with opc @ 320 kgs. with 20mm and down size graded granite metal course aggregate @ 0.878 cum and fine aggregate only wise EMB P.No = 52.25 cum @ 5747.38/cum					= 300397.00	
	providing and laying in position plain cement concrete min 1:3:6 with opc @ 220 kgs. with 40mm and above size concrete laid in layers. only wise EMB = 3.06 cum @ 5505.64/cum					= 16847.00.	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Ref. to Measurement Book
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item (8)	providing laying placing reinforced cement concrete for slabs beams using mix nominal mix concrete with OPC at 300 kg/ with down hand down size, well compacted for roof						
	Quantity vide E.M.B = 6.73 cum						
	@ ₹7970.00/cum					=	47588
Item (9)	providing T.M.T-bars Fe 500 Steel reinforcement to R.C.C						
	including straightening cutting, bending, including placing in position, tapping and binding						
	Quantity vide E.M.B = 0.617 tonne						
	@ ₹79326.00/tonne					=	48959

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Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	providing and fixing pre cast covering slab (250mm) thick made out of CC 1:2:4 with 10mm thick and finishing cutting, including form work.						
	Qudy more EMB = 1818.79 sqm @ ₹337.00/sqm					=	₹6,51,000.00
(11)	providing and fixing pre cast covering slab (250mm) thick made out of CC 1:2:4 and (any shape) down size						
	Qudy more EMB @ 5418.00/sqm				= 18.36 sqm	=	99471.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Remarks
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
Item (12)	providing and fixing pre cast solid cement concrete [illegible] made out of CC 1:2:4 with top and bottom width 1/4 and 1/8 respectively, 400mm high and 450mm in length finished with cm 1:3 plastering						
						Duty wise Emb = 9903 Nos	
						@ 430.46/Nos =	1255[illegible]
Item (13)	painting two coats after filling the surface with synthetic enamel paint in approved shade,						
						Duty wise Emb = 457.175sqm	
						@ 84.80/Sqm	
						=	38768[illegible]

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Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Unit	(4) Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tipper. Trimming bottom and side slopes						
	Quty wise EMB = 1975.17 cum						
	@ 56.96/cum					=	3197.00
	(5) Dismantling of cement concrete pavement by mechanical means using pneumatic tools. breaking to pieces not exceeding						
	Quty wise EMB = 1944 cum						
	@ 102.24/cum					=	198912.00

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tipper, trimming bottom and side slopes						
	Quantity as per MB = 1475.17 cum @ 56.26/cum					= 83197.00	
	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding						
	Quantity as per MB = 1944 cum @ 1022.34/cum					= 1988412.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to Measurement Book
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cement concrete pavement construction (M-30) (by) Reinforced plain cement concrete, using a grade concrete M 30 over prepared base.						
	Quantity wise EMB = 145.66 cum @ ₹ 510.96/cum =						759028
						Total Amount	= 83,63,45
						Add 4% service charge to KRIDL	= 33
						Add 18% GST charge	= 1003574
						Grand Total =	97,01,1
	CERTIFICATE — certified that the above work done is correct and as per the agreement						

Asst Executive Engineer,
R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

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